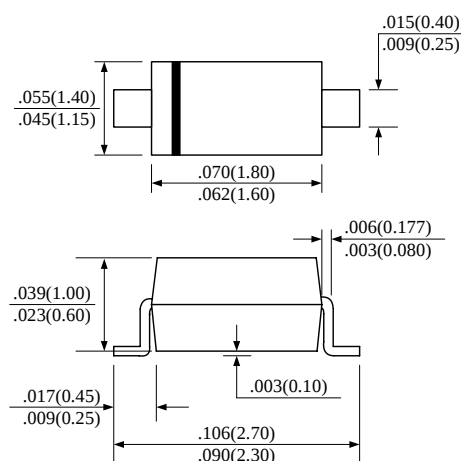


## Schottky Rectifier - 0.5Amp 30Volt

### □ Features

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- For use in low voltage high frequency inverters, free wheeling and polarity protection application
- High temperature soldering guaranteed
- High reliability
- High surge current capability
- Epitaxial construction
- Lead free device
- ESD sensitive product handling required

### SOD-323



### □ Mechanical data

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Terminals : Solder plated, solderable per MIL-STD-750,method 2026
- Polarity : Color band denotes cathode end

### □ Maximum ratings and Electrical characteristics

| TYPE                                                   | SYMBOL | CH520S-30PT     | UNIT |
|--------------------------------------------------------|--------|-----------------|------|
| Maximum Recurrent Peak Reverse Voltage                 | VRRM   | 30              | V    |
| Maximum RMS Voltage                                    | VRMS   | 21              | V    |
| Maximum DC Blocking Voltage                            | VDC    | 20              | V    |
| Maximum Average Forward Rectified Current              | Io     | 0.5             | A    |
| Peak Forward urge Current, 8.3ms single half sine-wave | IFSM   | 2.0             | A    |
| Maximum Instantaneous Forward Voltage                  | VF     | IF = 100mA 0.36 | V    |
|                                                        |        | IF = 500mA 0.47 |      |
| Maximum Average Reverse Current at VR = 20V            | IR     | 100             | μA   |
| Typical Junction Capacitance between Terminal (Note 1) | CJ     | 15.0            | pF   |
| Operating Temperature Range                            | TJ     | 125             | °C   |
| Storage Temperature Range                              | TSTG   | -40 - 125       | °C   |

Note: Measured at 1.0 MHz and applied reverse voltage of 10.0 volts

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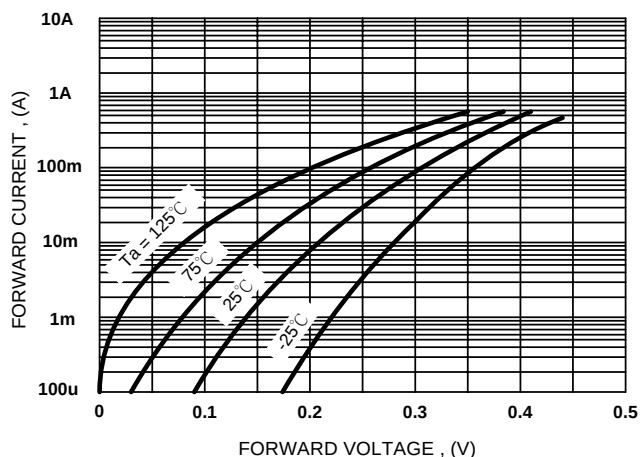


Figure 1. Forward Characteristics

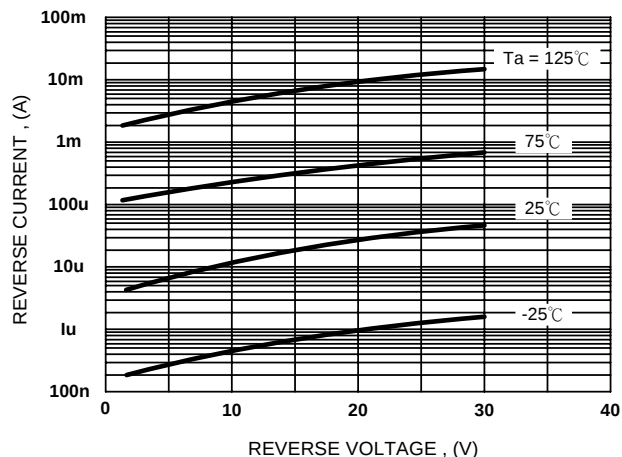


Figure 2. Reverse Characteristics

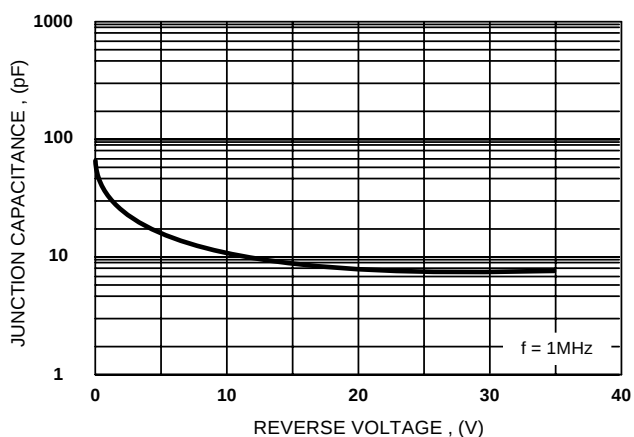


Figure 3. Typical Junction Capacitance

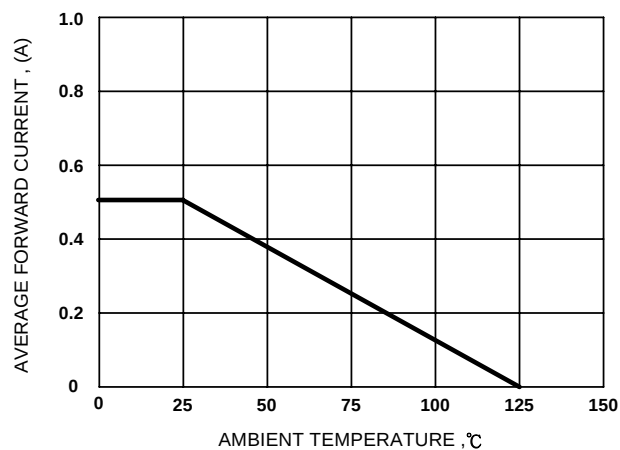


Figure 4. Forward Current Derating Curve